In re Applin: No. 09/5 Confirmation No. 8307 REMARKS Applicants have added into the present specification a new Sequence Listing section according to 37 C.F.R. \$1.821(c). Furthermore, attached hereto is a 3 1/2" disk containing the "Sequence Listing" in computer readable form in accordance with 37 C.F.R. \$1.821(e). I hereby state, in accordance with 37 C.F.R. §1.821(f), that the content of the attached paper and computer readable copies of the sequence listing are believed to be the same. I hereby also state, in accordance with 37 C.F.R. \$1.321(q), that the submission is not believed to include new matter. Under U.S. rules, each sequence must be classified in <213> as an "Artificial Sequence", a sequence of "Unknown" origin, or a sequence originating in a particular organism, identified by its scientific mame. Neither the rules nor the MPEP clarify the nature of the relationship which must exist between a listed sequence and an organism for that organism to be identified as the origin of the sequence under <213>. Hence, counsel may choose to identify a listed sequence as associated with a particular organism even though that sequence does not obtain in nature by itself in that organism (it may be, e.g., an epitopic fragment of a naturally occurring protein, or a cDNA of a naturally occurring mRNA, or even a substitution mutant of a naturally occurring sequence: Hence, the identification of an organism in <213 should not be construed as an admission that the

Similarly, designation of a sequence as "artificial" should not be construed as a representation that the sequence has

sequence per se occurs in nature in said organism.

In re Applin. No Confirmation No. 8307 no association with any organism. For example, a primer or probe may be designated as "artificial" even though it is necessarily complementary to some target sequence, which may occur in nature. Or an "artificial" sequence may be a substitution mutant of a natural sequence, or a chimera of two or more natural sequences, or a cDNA (i.e., intron-free sequence) corresponding to an introncontaining gene, or otherwise a fragment of a natural sequence. The Examiner should be able to judge the relationship of the enumerated sequences to natural sequences by giving full consideration to the specification, the art cited therein, any further art cited in an IDS, and the results of his or her sequence search against a database containing known natural sequences. New Figures 3A, 3B and 8 are submitted herewith, which figures include the SEQ ID NO's. Applicants submit that the present application contains patentable subject matter and therefore under the examiner to pass the case to issuance. If the examiner has any questions or comments concerning the sequence listing in the above described application, the examiner is urged to contact the undersigned at the phone number below. Respectfully submitted, BROWDY AND NEIMARK, P.L.L.C. Attorneys for Applicant(s) Xnne M. Kornbau Registration No. 25,884 AMK: r.mp 624 Ninth Street, N.W. Washington, D.C. 20001 Telephone No.: (202: 628-5197 Facsimile No.: (202) 737-3528 In the control of the elebrate control and increase of the autoposition of the control of the property of the control of the con - 5 -